

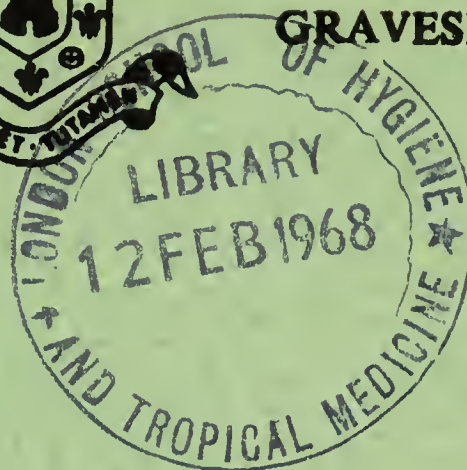
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27 NOV 1962

BOROUGH OF



GRAVESEND



ANNUAL REPORT
OF THE
Medical Officer of Health
FOR THE YEAR 1961

H. S. DAVIES,
M.D., B.S.(LOND.), M.R.C.S., L.R.C.P., D.P.H.

HEALTH COMMITTEE, 1961

THE MAYOR (Alderman P. E. LINES, J.P.)

Councillor C. A. WHITE, (*Chairman*)

Councillor C. H. SUTOR, (*Vice-Chairman*)

Alderman H. DAVIDSON (Deceased November 1961)

Alderman MISS A. E. H. JOHNSON, B.E.M.

Alderman R. H. GOODWIN

Alderman W. H. B. MCKENZIE, J.P.

Councillor E. W. MASTIN

Councillor A. J. COLES

Councillor MRS. M. O. CREESE, M.B.E.

Councillor K. C. W. PEARSON

Councillor B. BLACK

Councillor C. W. STRATFORD

Councillor A. J. SHUTTLEWOOD

HEALTH DEPARTMENT STAFF

Medical Officer of Health

HERBERT S. DAVIES, M.D., B.S. (Lond.), M.R.C.S., L.R.C.P., D.P.H.

Deputy Medical Officer of Health

DANIEL DESMOND, M.B., B.Ch., D.P.H., (N.U.I.).

Chief Public Health Inspector

* K. MCINTYRE, M.A.P.H.I.

Deputy Chief Public Health Inspector

* K. V. SPROAT, M.A.P.H.I.

District Public Health Inspectors

* M. G. GRAVETT, M.A.P.H.I.

* J. A. STOKER, M.A.P.H.I.

* A. G. BRIMBLE, M.A.P.H.I.

Pupil Public Health Inspector

D. HITCHCOCK
(Resigned October 1961)

Clerical Staff

A. H. BAKER, Chief Clerk to Public Health Inspector

MISS G. PUTTIFER

MRS. F. JONES, Clerk to Medical Officer
(Resigned September 1961)

MISS J. FIRMIN

MISS G. PARKER
(Commenced September 1961)

NOTE - * Hold Meat and Food Inspection Certificate

HEALTH DEPARTMENT,
WOODVILLE TERRACE,
GRAVESEND.

12th June, 1962.

MR. MAYOR, MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have much pleasure in presenting to you my Annual Report on the health of Gravesend for the year ended 31st December, 1961.

The Registrar General's estimate of the population is now 51,240, 1,069 live births were registered and the birth rate was 19.8 compared with 20.12 for the previous year. The death rate was 10.9 and the infant mortality rate 16.8.

Pollution of the atmosphere has continued to be investigated. The Ministry of Housing and Local Government has approved the Council's proposals for the first Smoke Control Area and work in connection with this is proceeding.

In conclusion, may I express my appreciation to the Chairman and to every member of the Health Committee for the keen interest they have always shown in the work of the Health Department and for their unfailing support throughout the year.

My thanks are due also to the County Medical Officer for his co-operation and to my staff for their continued hard work.

I am, Mr. Mayor, Mr. Chairman, Ladies and Gentlemen,

Your obedient Servant,

H. S. DAVIES,

Medical Officer of Health

SECTION "A"

STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH

Area of the Borough (acres)	.. .. .	4,619
Registrar-General's estimate of the Population	..	51,240
Number of separate inhabited houses (at 31.3.62)	..	15,160
Rateable Value (at 31.3.62)	.. .. .	£750,353
Sum represented by a Penny Rate	.. .. .	£3,043
Rates (to 31st March, 1962) - 22s. 2d. in the £		

Number of Dwelling Houses built during 1961 -

Corporation	Houses & Flats, etc.	72
Private Enterprise	Houses & Flats	253
" "	Bungalows	62
		<u>387</u>

INDUSTRIES AND EMPLOYMENT

The chief industries in the locality are - paper making, cement, light and marine engineering, cable and telegraph works, printing. A number of men are employed in the Merchant Navy, on river craft, and in dock work.

Unemployment has remained at a low level, but statistics which apply only to the Borough are not available.

REGISTERED LIVE BIRTHS

		Males	Females	Total
Legitimate	.. ..	538	489	1,027
Illegitimate	.. ..	<u>21</u>	<u>21</u>	<u>42</u>
Total live births		<u>559</u>	<u>510</u>	<u>1,069</u>

Crude Birth Rate per 1,000 population - 20.86

STILL BIRTHS

				Males	Females	Total
Legitimate	..	..	..	10	9	19
Illegitimate	..	..	..	1	-	1
				<u>11</u>	<u>9</u>	<u>20</u>
Still Birth Rate - i.e., Rate per						
1,000 total (live and still) births				-	18.36	
Still Birth Rate per 1,000 population				-	0.39	

REGISTERED DEATHS - All causes at all ages - 502

	Males	Females	Total
	246	256	502
Crude Death Rate per 1,000 population - 9.80			
(The previous year it was 10.20)			

DEATHS FROM PUERPERAL CAUSES - Nil

NATURAL INCREASE IN POPULATION (Excess of Births over Deaths) .. 567

INFANT DEATHS - under 1 year of age.

				Males	Females	Total
Legitimate Infants	..	..		11	7	18
Illegitimate Infants	..	..		-	-	-
				<u>11</u>	<u>7</u>	<u>18</u>

DEATH RATE OF INFANTS UNDER 1 YEAR OF AGE:-

Infant Mortality Rate, i.e. All infants per 1,000 live births	..	16.84
Legitimate infants per 1,000 legitimate live births	..	17.53
Illegitimate infants per 1,000 illegitimate live births	..	-

NEO-NATAL MORTALITY RATE (deaths under 4 weeks per 1,000 total live births) .. 11.22

EARLY NEO-NATAL MORTALITY RATE (deaths under 1 week per 1,000 total live births) .. 11.22

PERINATAL MORTALITY RATE (stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths) .. 29.38

COMPARATIVE BIRTH AND DEATH RATES

Rates	Gravesend	England and Wales
Birth Rate	19.80	17.40
Death Rate	10.90	12.00
Infant Mortality Rate ..	16.80	21.40
Still Birth Rate	00.39	00.33

BOROUGH OF GRAVESEND

BIRTHS AND DEATHS

BIRTH AND DEATH RATES FOR LAST TEN YEARS

YEAR	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Number of births	767	767	768	773	788	793	855	911	1,040	1,069
Crude Birth Rate (per 1,000 population)	16.95	16.85	16.71	16.66	16.53	16.90	18.32	18.83	21.18	20.86
Number of deaths	469	481	416	496	495	445	485	497	501	502
Crude Death Rate (per 1,000 population)	10.36	10.56	9.05	10.69	10.38	9.48	10.39	10.27	10.20	9.80

CAUSES OF DEATH IN GRAVESEND FOR 1961
AS PROVIDED BY THE REGISTRAR GENERAL

				Male	Female	Total
1.	Tuberculosis, Respiratory	..	..	1	2	3
2.	Tuberculosis, Other forms	..	..	-	-	-
3.	Syphilitic disease	..	..	-	-	-
4.	Diphtheria	..	..	-	-	-
5.	Whooping Cough	..	..	-	-	-
6.	Meningococcal infections	..	..	-	-	-
7.	Acute poliomyelitis	..	..	-	-	-
8.	Measles	..	..	-	-	-
9.	Other infective and parasitic diseases			-	1	1
10.	Malignant neoplasm, stomach	..	..	8	9	17
11.	Malignant neoplasm, lung, bronchus	..	..	18	5	23
12.	Malignant neoplasm, breast	..	..	-	7	7
13.	Malignant neoplasm, uterus	..	..	-	4	4
14.	Other malignant and lymphatic neoplasms			21	18	39
15.	Leukaemia, aleukaemia	..	..	1	1	2
16.	Diabetes	..	..	-	3	3
17.	Vascular lesions of nervous system	..	..	38	67	105
18.	Coronary disease, angina	..	..	53	27	80
19.	Hypertension with heart disease	..	..	1	4	5
20.	Other heart disease	..	..	24	31	55
21.	Other circulatory disease	..	..	9	15	24
22.	Influenza	..	..	1	4	5
23.	Pneumonia	..	..	4	16	20
24.	Bronchitis	..	..	25	4	29
25.	Other diseases of respiratory system	..	..	1	2	3
26.	Ulcer of stomach and duodenum	..	..	4	1	5
27.	Gastritis, enteritis and diarrhoea	..	..	1	-	1
28.	Nephritis and nephrosis	..	..	1	1	2
29.	Hyperplasia of prostate	..	..	1	-	1
30.	Pregnancy, childbirth, abortion	..	..	-	1	1
31.	Congenital malformations	..	..	1	5	6
32.	Other defined and ill-defined diseases			21	18	39
33.	Motor vehicle accidents	..	..	2	1	3
34.	All other accidents	..	..	7	5	12
35.	Suicide	..	..	2	3	5
36.	Homicide and operations of war	..	..	1	1	2
Total - All causes				246	256	502

INFECTIOUS DISEASE NOTIFIED DURING 1961

Disease	Under one year	One and under 3 years	3 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 years and over	Total	Number Removed to Hospital
Ophthalmia Neonatorum ..	-	-	-	-	-	-	-	-	-	-	-
Dysentery ..	-	-	-	-	-	-	1	-	-	1	-
Erysipelas ..	-	-	-	-	-	-	2	2	2	6	-
Food Poisoning ..	-	-	-	-	-	-	-	-	-	-	-
Measles ..	25	203	216	412	33	3	7	-	-	899	-
Meningococcal Infection ..	-	-	-	-	-	-	-	-	-	-	-
Pneumonia ..	1	2	-	2	-	-	2	5	9	21	4
Acute Poliomyelitis - Paralytic	-	-	-	-	-	-	-	-	-	-	-
Non-Paralytic	-	-	-	-	-	-	-	-	-	-	-
Puerperal Pyrexia ..	-	-	-	-	-	2	1	-	-	3	2
Scarlet Fever ..	-	1	3	8	1	-	-	-	-	13	-
Whooping Cough ..	-	1	-	1	-	-	-	-	-	2	-
Respiratory Tuberculosis ..	-	-	-	-	2	7	5	6	-	20	11
Non-Respiratory Tuberculosis	-	-	-	-	-	-	3	-	-	3	2
	26	207	219	423	36	12	21	13	11	968	19

SECTION B

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

1. MEDICAL PRACTITIONERS

There are 25 doctors residing in the area who are engaged in general practice.

2. LABORATORY FACILITIES

The following specimens were submitted to the Public Health Laboratory, Preston Hall, Maidstone, for examination:-

A.	(1)	Faeces	- Examination for Pathogenic Organisms	..	<u>23</u>
B.	(1)	Milk	- Turbidity Test	..	24
	(2)	Water	- Public Supplies - Bact. Examination	..	71
			- Swimming Pool	..	12
	(3)	Ice Cream	- Bacteriological Examination	..	<u>63</u>
			Total		<u>170</u>

3. COUNTY AMBULANCE SERVICE

Twelve ambulances (7 stretcher and 5 sitting cases) are stationed at the Harden V.C. Memorial Hall, Hall Road, Northfleet. Telephone - Gravesend 5257/8.

4. HOME NURSING SERVICE

The County Council provides a service free of charge for the attendance on persons whose doctors require them to be nursed in their own homes. In cases of chronic sickness in patients who are over 70 years of age, a night service is provided. The nurse's attendance is normally arranged by the doctor, but the name and address of the appropriate nurse for any particular district is obtainable from the under-mentioned District Office of the County Council:-

Arthur Street, Gravesend. (Tel. Gravesend 2166)

The following services are provided by the County Council:-

5. MATERNITY AND CHILD WELFARE CLINICS

- (1) Ante-Natal Clinics.
- (2) Infant Welfare Clinics.
- (3) Diphtheria and Poliomyelitis Immunisation Clinics.
- (4) Dental Clinics.
- (5) Speech Therapy Clinics.

6. MIDWIFERY SERVICE

There are eight County Midwives serving the Gravesend area.

Name	Address	Telephone No.
Miss L. M. Mills	85 Whitehill Road, Gravesend.	Gravesend 2980
Miss W. M. Hunt	77 Dickens Road, Gravesend.	" 4166
Miss M. A. G. Gaskell	77 Dickens Road, Gravesend.	" 4166
Mrs. F. E. Dudley	25 Arnold Road, Gravesend.	" 5976
Miss A. A. Gibson	55 St. Margaret's Cres., Gravesend.	" 63582
Mrs. J. Showler	7 Goodwood Crescent, Gravesend.	" 4880
Mrs. M. E. Langdon	90 Leander Drive, Gravesend.	" 63052
Mrs. E. M. McCall	29 The Avenue, Gravesend.	" 64589

7. DOMESTIC HELP SERVICE

This is a County Service giving domestic help to old people, maternity patients and persons suffering from illness, and other cases of emergency. Application is made to the Domestic Help Organiser, District Office, Arthur Street, Gravesend. Telephone Gravesend 2166.

8. CHEST CLINIC - (South-East Metropolitan Regional Hospital Board)

The Chest Clinic is held at the Gravesend and North Kent Hospital every Wednesday at 9 30 a.m., and on Tuesday afternoons at 2 p.m. for children.

9. VENEREAL DISEASE CLINIC - (South-East Metropolitan Regional Hospital Board)

Dr. C. D. Routh is in attendance at the Gravesend Clinic, 22 Cobham Street (telephone Gravesend 3061), at the following times:-

TUESDAY

Male ..	11.0 a.m. to 1.0 p.m.
Female ..	1.0 p.m. to 2.0 p.m.

SATURDAY

Male and Female	9.0 a.m. to 10.0 a.m.
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GRAVESEND AND NORTH KENT HOSPITAL

The Out-patient Clinics at the Hospital are as follows:-

MONDAY

9.30 a.m.	Ear, Nose & Throat Clinic	Mr. Golding-Wood
9.30 a.m.	Medical	Dr. J. Donaldson Craig
9.30 a.m.	Physical Medicine	Dr. R. Hickey
1.45 p.m.	Paediatric Clinic	Dr. Fisher
2.00 p.m.	Medical	Dr. Moir
6.30 p.m.	Family Planning Clinic	Dr. Charlotte Wisdom

TUESDAY

9.00 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9.30 a.m.	Dermatology Clinic	Dr. Cairns
10.30 a.m.	Ophthalmic Clinic	Dr. Ormrod
11.30 a.m.	Surgical Clinic	Mr. M. Landau
1.45 p.m.	Ante-Natal Clinic	Mr. A. M. Hunter
2.00 p.m.	Chest Clinic	Dr. H. J. Robinson
3.00 p.m.	Obstetric Clinic	Mr. A. M. Hunter
4.00 p.m.	Gynaecological Clinic	Mr. A. M. Hunter

WEDNESDAY

9.00 a.m.	Surgical Clinic	Mr. A. Tompkin
9.30 a.m.	Chest Clinic	Dr. H. J. Robinson
9.30 a.m.	Speech Therapy	Miss Halfpenny
	(First Wednesday in each month)	
2.00 p.m.	Chest Clinic	Dr. H. J. Robinson
2.00 p.m.	Psychiatric Clinic	Dr. P. Crawford
2.00 p.m.	Psychiatric Clinic	Dr. J. Stewart
2.30 p.m.	Physical Medicine	Dr. R. Hickey
3.00 p.m.	Psychiatric Clinic	Dr. S. W. Hardwicke

THURSDAY

9.30 a.m.	Ophthalmic Clinic	Mr. G. L. Simmons
9.30 a.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
1.30 p.m.	Medical	Dr. J. Donaldson Craig
2.00 p.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
6.30 p.m.	Family Planning Clinic	Dr. Charlotte Wisdom

FRIDAY

8.30 a.m.	Gynaecological Clinic	Dr. G. Dalley
9.00 a.m.	Dental Clinic	Mr. F. T. Wilkinson
10.15 a.m.	Fracture Clinic	Mr. R. H. V. Hafner
10.30 a.m.	Obstetric Clinic	Mr. W. Gross
2.00 p.m.	Surgical Clinic	Mr. Sol. M. Cohen
2.00 p.m.	Psychiatric Clinic	Dr. W. Haynes
2.00 p.m.	Psychiatric Clinic	Dr. P. Crawford
2.00 p.m.	Psychiatric Clinic	Dr. J. Stewart
2.00 p.m.	Psychiatric Clinic	Dr. S. W. Hardwicke

SATURDAY

9.00 a.m.	Ante-Natal Clinic	Dr. G. Dalley
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MATERNITY AND CHILD WELFARE

Under the National Health Service Act, 1946, the administrative arrangements for the Maternity and Child Welfare Services passed from the Borough Council to the Kent County Council.

NOTIFICATION OF BIRTHS

Notification of births are sent direct to the County Medical Officer at Maidstone.

The number of live and still births occurring in Gravesend during the year was 954. After correction for those whose usual residence is elsewhere (i.e. 142 transferred "out" and 277 transferred "in") the number properly belonging to the Borough was 1,089 (1,069 live births and 20 still births) compared with 939 in the previous year.

PARTICULARS OF BIRTHS OCCURRING IN GRAVESEND

Total number of live and still births occurring in Gravesend	..	..	954
Number of live births actually belonging to Gravesend		795	
Number of still births actually belonging to Gravesend		17	
Number of live births (non-residents)		137	
Number of still births (non-residents)		5	
		<hr/>	954

NUMBER OF BIRTHS OCCURRING IN HOSPITAL

	Live Births	Still Births
Number of infants born in Hospital - (residents)	295	13
Number of infants born in Hospital - (non-residents)	137	5

HEALTH VISITORS

Nurses with special qualifications are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The following Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres:-

Miss N. G. Cappaet, S.R.N., S.C.M.
Windmill Street Welfare Centre

Miss M. C. Craddock, S.R.N., S.C.M.
Windmill Street Welfare Centre

Miss J. M. Egerton, S.R.N., S.C.M.
Windmill Street Welfare Centre

Miss C. James, S.R.N., S.C.M.
"The Nest", Welfare Centre

Miss E. M. Kenworthy, S.R.N., S.C.M.
Whitehill Welfare Centre

Miss M. E. Ormerod, S.R.N., S.C.M.
Whitehill Welfare Centre

The following are specialist Health Visitors for tuberculosis:-

Miss E. M. Martin

Mrs. C. Roe

PREMATURE INFANTS

Premature infants nursed at home are visited regularly by the Midwives and Health Visitors.

The following special equipment is available for loan at the Welfare Centres:

Draught-proof cot with detachable lining; suitable warm clothing; hot water bottles; special feeding bottles; thermometer; mucus catheter, etc.

MATERNITY AND CHILD WELFARE CENTRES

The three Welfare Centres in the Borough are Windmill Street (Central), Whitehill (King's Farm Estate), and "The Nest" (Denton and Chalk district).

The sessions are as follows:-

	Windmill Street	Whitehill	"The Nest"
	Afternoon	Afternoon	Afternoon
MONDAY	Child Welfare Clinic - Medical Officer in attendance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.
		Afternoon	
TUESDAY	-	Ante-Natal Clinic and Midwives' Clinic combined.	-
	Afternoon		Afternoon
WEDNESDAY	Midwives' Clinic.	-	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.
	Afternoon	Afternoon	Morning & Afternoon
THURSDAY	Ante-Natal Clinic.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Speech Therapy Clinic.
	Afternoon	Afternoon	Afternoon
FRIDAY	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	**Mothercraft and Relaxation Classes.	*Ante-Natal Clinic. Midwives' Clinic.

* First and third Fridays in each month.

** Except second Friday in each month.

ATTENDANCE AT CHILD WELFARE CENTRES

The attendances at the three Welfare Centres during the year were:-

(a)	Individual children under 1 year of age	..	1,107
(b)	Individual children between 1 and 5 years	..	1,173
(c)	Total number of attendances of all children under 5 years	..	18,005

For the year 1960 the figures were:-

(a)	813	(b)	1,225	(c)	18,495
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LADIES' VOLUNTARY COMMITTEE

The Ladies' Voluntary Committee continues to serve at the three Welfare Centres in the town and their work is greatly appreciated.

ANTE-NATAL CLINICS

Ante-Natal clinics are held once a week at Windmill Street and Whitehill Welfare Centres and the first and third Friday in each month at 'The Nest' Welfare Centre. A doctor is in attendance at each session.

In all, 337 expectant mothers attended the clinics. The total attendances for the year were 505.

WOMEN'S WELFARE CLINIC

Married women requiring advice are referred to the Gynaecological Clinic at Gravesend and North Kent Hospital, by their private medical practitioners. This clinic is held on Tuesday afternoons at 4 p.m.

DENTAL TREATMENT

Dental treatment for expectant and nursing mothers, children under five years and school children is provided at the Dental Clinic, Manor Road.

The clinic is open as the following times:-

Monday	A.M.	9.00 to 10.30
Tuesday, Wednesday and Thursday	A.M.	9.00 to 12 noon
	P.M.	1.30 to 4.30
Friday	A.M.	9.00 to 10.30

OPHTHALMIC TREATMENT

The County Ophthalmic Clinic is held at the Gravesend and North Kent Hospital. Further details on page 11.

MINOR AILMENT CLINICS - SCHOOL CHILDREN

These clinics are held at the following times:-

Windmill Street	Wednesday and Friday	9 a.m. to 10 a.m.
Whitehill, King's Farm	Tuesday	9 a.m. to 10 a.m.

REGISTRATION AND SUPERVISION OF NURSING HOMES

There are no Nursing Homes registered by the Borough Council. A Nursing Home, mainly for old people, is supervised by the Kent County Council under Section 37 of the National Assistance Act, 1948.

ARRANGEMENTS MADE FOR THE DISCOVERY OF UNREGISTERED HOMES

1. The returns from the local Registrar are examined to check the addresses at which births and deaths occur.
2. Health Visitors and the staff are asked to keep a look out for unregistered homes.

VOLUNTARY SOCIETIES

There are in Gravesend a number of voluntary societies which carry on excellent work in providing services usually of an individual and personal nature other than those supplied by the Local Authorities.

Among these are the Rochester Diocesan Council for Moral Welfare who have now an additional part-time worker in the area, and the Gravesend and District Social Club for the Hard of Hearing which continues to do good work. The family planning clinics are well attended. A wide range of excellent social work is covered by the local detachment of the British Red Cross Society. This includes a greatly appreciated club for the disabled, a foot clinic for the disabled and elderly and considerable work auxiliary to the hospital service, such as the running of a "trolley shop" and a library for the benefit of hospital patients.

Mr. K. McIntyre, Chief Public Health Inspector, has supplied the statistics relating to Public Health Inspection, Housing, Food, Factory Inspection and Atmospheric Pollution.

SECTION “C”

SANITARY CIRCUMSTANCES OF THE AREA

WATER SUPPLY

PUBLIC DRINKING SUPPLIES

The Medway Water Board supply water to the Borough.

The water has been satisfactory -

(a) in quantity

(b) in quality

The water is hard and there is no evidence of plumbo-solvent action.

Three dwelling houses are supplied from public mains by means of stand pipes.

BACTERIOLOGICAL EXAMINATION

Samples were taken at regular intervals and were all reported to be satisfactory.

Number of samples taken:-

Raw water	..	..	6
Treated water	..	..	65
			<hr/>
			71
			<hr/>

CHEMICAL ANALYSIS

One sample of treated water was taken and reported to be satisfactory.

Note: Tabulated summaries of all water samples taken and results of examination are shown on pages 43, 44, 45 and 46.

CORPORATION BATHING POOL

The Open-air Bathing Pool opened in 1938 has accommodation for 1,200 bathers. The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The 400,000 gallons of water in the pool are filtered, aerated and sterilised. Wide surrounds and large areas are provided for sun-bathing, whilst a spectators' terrace surrounds the site. On the first floor of the building a Cafe and Spectators' Gallery are provided, affording a splendid view of the whole site. There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1961 season the following persons used the Pools:-

Bathers and Spectators	..	..	..	97,397
Schoolchildren	..	..	..	26,190
Season Ticket Holders	..	..	..	13,479
Club Members	..	..	..	6,687
National Sea Training School	..	..	..	196
				<u>143,949</u>

HYGIENIC ARRANGEMENTS AT BATHING POOL

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination", which was put into operation in 1948 appears to be working efficiently.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Twelve samples were taken. See tabulated summary on page 46.

SLIPPER BATHS

The Slipper Baths at the Corporation Bathing Pool were opened in January, 1949.

There are separate sections for males and females - 7 baths being allocated to males and 3 to females.

This service is working very satisfactorily and is much appreciated by the residents of the town. The attendances for the year 1961 were as follows:-

Males	..	..	15,495
Females	..	..	2,667
			<u>18,162</u>

FACTORIES ACTS, 1937-1959

The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1937.

Administrative arrangements include the following:-

Part I - Health (General Provisions)

- (1) Registration of all factories.
- (2) Inspection of sanitary conveniences in all factories.
- (3) Inspection with regard to cleanliness, overcrowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.

Part IV - Basement Bakehouses

- (1) The quinquennial examination of basement bakehouses and the renewal or cancellation of Certificates of Suitability.

Part VIII - Home Work

- (1) Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
- (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
- (3) Inspection of premises in which the outworker pursues his occupation.

The provisions of the Act, so far as they affect local authorities, have been enforced.

PRESCRIBED PARTICULARS OF THE ADMINISTRATION
OF THE FACTORIES ACTS, 1937-59
PART I

1. Inspections for purposes of provisions as to Health
(including inspections made by Public Health Inspectors).

Premises	Number on Register	Inspections	Written Notices	Owners Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by local authorities	32	109	4	-
(ii) Factories not included in (i) in which Section 7 is enforced by local authorities	127	250	5	-
(iii) Other premises in which Section 7 is enforced by the local authority (excluding outworkers premises)	4	2	-	-
	163	361	9	-

2. Cases in which defects were found:-

Particulars	Number of cases in which defects were found				Number of cases in which prosecutions were instituted
	Found	Remedied	Referred To H M. Inspector	By H.M. Inspector	
Want of cleanliness ..	10	6	-	-	-
Overcrowding	-	-	-	-	-
Unreasonable temperature	-	-	-	-	-
Inadequate ventilation	-	-	-	-	-
Ineffective drainage of floors	-	-	-	-	-
Sanitary Conveniences:-					
(a) insufficient ..	2	1	-	2	-
(b) unsuitable or defective ..	8	3	-	-	-
(c) not separate for sexes	-	-	-	-	-
Other offences against the Act (not including offences relating to Outwork)	-	-	-	-	-
	20	10	-	2	-

PART VIII OF THE ACT
OUTWORK - SECTION 110 AND 111

SECTION 110				SECTION 111		
Nature of work	No. of outworkers in August list required by Sec. 110(c) (2)	No. of cases in default in sending lists to the Council	No. of prosecutions for failure to supply lists	No. of instances of work in unwholesome premises	Notices served	Prosecutions
Wearing apparel (making, etc.)	8	-	-	-	-	-
Furniture and Upholstery	3	-	-	-	-	-
Jewellery	1	-	-	-	-	-
	12	-	-	-	-	-

1.	Total number of outworkers notified to Gravesend Council in 1961 (under 1(e) of Sec. 110 Factories Act, 1937)	..	..	..	..	7
2.	Total number of outworkers notified by Gravesend Council to other Councils (under 2 of Sec. 110 Factories Act, 1937)	..	..	..	..	2
3.	Total number of outworkers notified to Gravesend by other Councils	..	..	..	..	7
4.	Total number of outworkers employed in Gravesend	..	..	..	..	12
5.	Total number of inspections of work places (under Sec 111(1) Factories Act, 1937)	..	..	..	..	15

BASEMENT BAKEHOUSES

PART IV OF THE ACT

Certificates of suitability are in operation in respect of three basement bakehouses.

PUBLIC HEALTH INSPECTION

SUMMARY OF VISITS BY PUBLIC HEALTH INSPECTORS

Dwelling house inspections	..	..	..	..	2,251
" " re-inspections	..	..	..	..	1,828
Visits to other premises:-					
Clean Air Act .. .. .	..	..	..	..	1,698
Factories (with power) ..	..	..	..	..	250
Factories (without power)	..	..	..	..	109
Improvement grants ..	..	..	..	..	39
Infectious diseases ..	..	..	..	..	59
Offensive trades ..	..	..	..	..	6
Outworkers .. .. .	..	..	..	..	15
Pet Shops .. .. .	..	..	..	..	35
Piggeries .. .. .	..	..	..	..	18
Public conveniences and urinals		..	..	..	111
Rent Act .. .. .	..	..	..	..	6
Rodent control .. .. .	..	..	..	..	111
Schools .. .. .	..	..	..	..	4
Shops Acts .. .. .	..	..	..	..	94
Stables .. .. .	..	..	..	..	3
Food premises .. .. .	..	..	..	..	5,038
Miscellaneous visits ..	..	..	..	..	406
Visited for purposes of meat and food inspection:-					
Meat depots .. .. .	..	..	..	..	53
Shops and other premises ..	..	..	..	..	170
Food and drugs, milk, ice cream and water sampling				..	341
Merchandise Marks Act ..	..	..	..	..	114
					12,759

NOTICES SERVED

			<i>Informal</i>	<i>Statutory</i>
In respect of dwelling houses	..	..	516	45
In respect of other premises	..	..	102	-

NUISANCES AND DEFECTS REMEDIED

HOUSES:

Accumulations removed	53
Animals causing a nuisance	2
Dustbins provided	324
Cesspools - repaired	1
- filled in	7
Chimney stacks - repaired	3
- new pots provided	2
Dampness - sub-floor ventilation provided	6
- damp-proof courses provided	4
- external walls repointed or rendered	44
Doors and door sills repaired or renewed	19
Dirty houses cleansed by tenants	4
Drainage - partly relaid	21
- wholly relaid	1
- unstopped	47
- I.C. chambers or covers provided or repaired	10
- soil and ventilating pipes removed	5
- gullies, etc. provided or repaired	4
- sewers unstopped	19
Floors relaid or repaired	21
Guttering or rainwater pipes renewed or repaired	32
Light and ventilation improved	1
Paving relaid or repaired	10
Roofs repaired	31
Rooms, passages and staircases - walls repaired	63
- ceilings repaired	24
- staircases, balusters repaired	4
Sinks, new provided	3
Sink or bath waste pipe renewed or repaired	3
Stoves and fireplaces renewed or repaired	9
Stonesteps and thresholds renewed or repaired	8
Verminous premises disinfested	21
Water supply - water pipes, etc. repaired	9
Water closets - repaired and/or cleansed	28
- new pans	11
- pans cleansed or unstopped	4

HOUSES (contd.):

Water closets - cisterns provided or repaired	..	..	18
- seats renewed or repaired	..	..	3
Windows - renewed or repaired	..	..	26
- sashcords and weights provided or repaired	..	..	10
- sills renewed or repaired	..	..	9

FOOD PREMISES:

Premises repaired or cleansed	..	..	..	87
Utensils, equipment, etc., repaired or cleansed	..	..	..	36
Improvements	..	..	..	32
Personal cleanliness contraventions	..	..	..	22
Names and address on stalls	..	..	..	2

THE RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951

Two premises are registered within the district and these have been kept under supervision

PET ANIMALS ACT, 1951

Three premises are licensed within the district and 35 visits of inspection were made.

CESSPOOL AND PAIL SYSTEM

There are still premises in the Eastern and Southern parts of the Borough where the drainage discharges into cesspools.

The Health Department is responsible for this work but the actual emptying of cesspools is carried out on behalf of the Department by the Borough Engineer's Department, a combined road gully and cesspool emptying machine being used for the purpose.

During the year 10,582 tons of sewage were removed requiring 874 emptyings, compared with 9,203 tons requiring 823 emptyings during the previous year.

Pail closets are still used at 4 dwelling houses in the Borough.

HOUSE AND TRADE REFUSE REMOVAL AND DISPOSAL

(a) COLLECTION

Refuse collected during the year amounted to 13,500 tons, compared with 13,848 tons the previous year, these amounts being ascertained by test weighing.

(b) DISPOSAL

All refuse is disposed of by controlled tipping. The tip is a disused chalk pit in Vale Road, Northfleet and is operated by the Northfleet Urban District Council.

It is used jointly by Gravesend, Northfleet and Swanscombe, and the operating costs are borne by each authority on a proportionate basis according to population.

SALVAGE

Salvaged materials collected and sold during the year were as follows:-

	Weight			Value
	T.	C.	Q.	£
Waste paper	517	18	1	4,390
Miscellaneous	4	9	0	34
	522	7	1	4,424

DISINFECTION OF PREMISES

Disinfection of rooms and bedding where necessary for the prevention of infectious diseases was carried out at 22 premises.

PUBLIC CONVENIENCES

The Health Department is responsible for the staffing and cleansing of public conveniences in the Borough.

Conveniences at 13 licensed premises are also cleansed by Health Department employees in consideration of the fact that they are available for the use of the general public at all times.

Conveniences attached to other licensed premises have been kept under supervision.

RODENT CONTROL

All infested premises notified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfestation at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out by the Rodent Officer during the year 1961:-

Number of properties inspected	..	287
Number of properties found to be infested by:		
(a) Rats	..	121
(b) Mice	..	69
Number of properties treated	..	189

Sewer maintenance treatments were carried out in the Spring with the undermentioned results:-

Number of manholes baited	..	374
Number showing complete takes	..	7

SECTION "D"

HOUSING

1. Inspection of dwelling houses during the year:-

(1) Total number inspected for housing defects (under Public Health or Housing Acts)	.. ..	1,599
(2) Number of Inspections made for the purpose	.. ..	3,180
(3) Number found to be in a state so dangerous or injurious to health as to be unfit for human habitation .. ..	.. ..	85
(4) Number found not to be in all respects reasonably fit for human habitation .. ..	.. ..	149

2. Remedy of defects:-

(1) After informal action by Local Authority	.. ..	138
(2) After formal notice under Public Health Acts:-		
(a) by owners .. ..	.. ..	25
(b) by Local Authority in default of owners .. ..	.. ..	-

3. Demolition and Closure Procedure:-

(1) Number of dwelling houses in respect of which Demolition Orders were made .. ..	.. ..	9
(2) Number of dwelling houses demolished in pursuance of Demolition Orders .. ..	.. ..	3
(3) Number of dwelling houses demolished as a result of informal procedure .. ..	.. ..	-
(4) Number of dwelling houses in respect of which Closing Orders were made .. ..	.. ..	6
(5) Number of dwelling houses closed in pursuance of Closing Orders .. ..	.. ..	1
(6) Number of dwelling houses in respect of which Closing Orders were determined .. ..	.. ..	1
(7) Number of dwelling houses demolished which were previously reported as closed .. ..	.. ..	2

HOUSING ACT, 1957, PART III

Clearance Areas

The following areas were represented:-

Wakefield Street	13 houses
Robert Street and Kempthorne Street ..	5 houses
Robert Street	2 houses
Robert Street, Kempthorne Street, Wakefield Street and Westside Place	48 houses
Bath Street No. 1 Area	5 houses
Bath Street No. 2 Area	4 houses

Clearance Orders

The following Orders were confirmed:-

Brunswick Retreat	..	..	..	20 houses
Castle Cottages	..	..	..	7 houses

Compulsory Purchase Orders

The following Order was confirmed:-

Bentley Street and Cottage Place	..	27 houses
----------------------------------	----	-----------

(NOTE: Following a public enquiry, fifteen houses were excluded from the original number and two were modified to "grey")

Rehousing

Fifty-five families were rehoused as a result of procedure under the Housing Act, 1957.

RENT ACT, 1957 - FIRST SCHEDULE

Part I - Applications for Certificates of Disrepair:

(1) Number of applications for certificates	..	..	1
(2) Number of decisions not to issue certificates	..	..	Nil
(3) Number of decisions to issue certificates -			
(a) in respect of some but not all defects	..	..	1
(b) in respect of all defects	..	..	Nil
(4) Number of undertakings given by landlords	..	..	1
(5) Number of undertakings refused by Local Authority	..	..	Nil
(6) Number of certificates issued	..	..	Nil

Part II - Applications for Cancellation of Certificates:

(1) Applications by landlords to Local Authority for cancellation of certificates	..	..	1
(2) Objections by tenants to cancellation of certificates	..	..	1
(3) Decisions by Local Authority to cancel in spite of tenants' objection	..	..	Nil
(4) Certificates cancelled by Local Authority	..	..	Nil

HOUSING ACCOMMODATION

Visits numbering 25 have been made to premises where the environmental conditions have been reported as unsatisfactory. Nine of the cases were referred to the Housing Manager.

SECTION " E "

INSPECTION AND SUPERVISION OF FOOD

Inspection of food premises is being maintained, and the following is a summary of the visits made and notices served:-

			No. of Premises	No. of Visits	Number of Notices Served
Bakehouses	..	..	11	53	2
Butchers	..	..	42	577	10
Cake and bread shops	..	..	28	164	2
Canteens	..	..	36	61	1
Catering premises	..	..	60	465	18
Confectioners	..	..	69	327	3
Cooked meat shops	..	..	20	123	1
Dairies and milkshops	..	..	82	260	-
Licensed premises	..	..	106	204	15
Fish-frying establishments			14	72	1
Fishmongers	..	..	15	275	2
Greengrocers	..	..	45	1,160	7
Ice cream premises	..	..	138	366	2
Provision dealers	..	..	104	931	12
			<u>770</u>	<u>5,038</u>	<u>76</u>

Note: Where premises carry on more than one type of business they are recorded under each appropriate type.

FOOD AND DRUGS ACT, 1955, SECTION 16

Premises registered:

(a)	for the sale of ice cream	..	..	..	137
(b)	for the manufacture and sale of ice cream	..	..	..	1
(c)	for the preparation or manufacture of sausages, or potted, pressed, pickled or preserved food	..	..	..	66

THE MILK AND DAIRIES (GENERAL) REGULATIONS, 1959

Registered dairies	..	..	..	2
Registered milk distributors	..	..	..	80

THE MILK (SPECIAL DESIGNATION) REGULATIONS, 1960

Licences issued under these Regulations, to operate until 31st December, 1965, are as follows:-

Dealers' (Pasteurisers) Licences	..	2
Dealers' (Tuberculin Tested) Licences	..	2
Dealers' (Prepacked Milk) Licences	..	80

BIOCHEMICAL EXAMINATION OF MILK

Samples of milk were taken and submitted for biochemical examination and the results were as follows:-

Designation	No. of Samples	Results	
Pasteurised	89	Methylene Blue Test	Satisfactory 35
			Unsatisfactory 4
		Phosphatase Test	Satisfactory 42
			Unsatisfactory -
Tuberculin Tested (Pasteurised)	74	Methylene Blue Test	Satisfactory 48
			Unsatisfactory 2
		Phosphatase Test	Satisfactory 33
			Unsatisfactory -
Sterilised	24	Turbidity Test	Satisfactory 24
			Unsatisfactory -

BACTERIOLOGICAL EXAMINATION OF ICE CREAM

Samples of ice cream were taken and submitted for bacteriological examination and the results were as follows:-

			Number of Samples
Grade 1	..	..	44
Grade 2	..	..	17
Grade 3	..	..	2
Grade 4	..	..	-
			<hr/> 63

Inspection of Food

The following food was surrendered as unfit for human consumption: -

(a) Carcase meat and offal:

Beef	865 lbs.	Liver	25 lbs.
Pork	168 lbs.	Kidneys	235 lbs.
Lamb	297 lbs.		

(b) Miscellaneous:

Bacon	579 lbs.	Margarine	106 lbs.
Butter	104 lbs.	Oranges	19 lbs.
Cheese	262 lbs	Poultry	36 lbs.
Cream	2 galls.	Rabbit	102 lbs.
Fish	240 lbs.	Sausages	59 lbs.
Flour	78 lbs.	Sugar	223 lbs.
Lard	7 lbs.	Tomatoes	60 lbs.
Liquid egg	28 lbs.		

(c) Tinned, bottled or packaged goods:

Baby food	60 tins	Peanut butter	2 jars
Biscuits	24 lbs.	Pease pudding	25 tins
Cereals	16 packets	Pickle	18 jars
Coffee	3 tins	Poultry	12 tins
Cream	18 tins	Ravioli	1 tin
Fish	251 tins	Rice	96 tins
Fruit	772 tins	Semolina	1 tin
Fruit juice	34 tins	Soup	299 tins
Honey	1 tin	Spaghetti	30 tins
Jam	22 tins 19 jars	Sweet corn	1 tin
Jellies	11 packets	Sweets	3 lbs.
Meat	751 tins	Tea	14 lbs.
Macaroni	7 tins	Tomato juice	2 tins
Meat pudding	16 tins	Treacle pudding	1 tin
Milk	348 tins	Vegetables	1132 tins

(d) Frozen foods:

Fish	703 packages	Vegetables	183 packages
Meat	208 packages	Miscellaneous	29 packages

Food and Drugs Act, 1955

Samples taken during the year and submitted for analysis were as follows: -

Article	Number of Samples		Result of Analyses	
	Formal	Informal	Genuine	Not Genuine
Ammoniated tincture of quinine	-	2	1	1
Beef (minced)	-	2	2	-
Brandy butter	-	1	1	-
Bronchial mixture	-	1	-	1
Cake fruit mixture	-	1	1	-
Candied peel	-	1	1	-
Cheese	-	1	1	-
Cheese spread	-	1	1	-
Cheese rolls	-	1	1	-
Chocolate	-	2	2	-
Coffee	-	1	1	-
Conplan food drink	-	1	1	-
Crab rolls	-	1	1	-
Cream	-	3	3	-
Cream doughnuts	-	2	2	-
Cream horns	-	1	-	1
Dates	-	1	1	-
Dripping	-	2	2	-
Faggots	-	1	1	-
Figs	-	1	1	-
Flour	-	1	1	-
Honey spread	-	1	1	-
Ice cream	-	16	16	-
Influenza mixture	-	1	1	-
Lemon juice	-	2	2	-
Lobster paste	-	1	1	-
Marzipan	-	1	1	-
Meat paste	-	1	1	-
Meringue powder	-	1	1	-
Milk	12	35	46	1
Orange juice	-	1	-	1
Pate de foie	-	1	1	-
Paxedin tablets	-	1	1	-
Carried forward	12	90	97	5

Article	Number of Samples		Result of Analyses	
	Formal	Informal	Genuine	Not Genuine
Brought forward	12	90	97	5
Peas (processed)	-	2	2	-
Pepper	-	1	1	-
Pickled cabbage	-	1	1	-
Pork rolls	-	1	1	-
Sal volatile	-	1	-	1
Sausages	-	4	3	1
Sausage rolls	-	1	1	-
Soda water	-	1	1	-
Soup powder	-	1	1	-
Steak and kidney	-	1	1	-
Stewed steak	-	2	2	-
Suet	-	1	1	-
Sweets	-	2	2	-
Tea	-	2	2	-
Throat tablets	-	1	1	-
Tomatoes (peeled)	-	2	2	-
Turkey (minced)	-	1	1	-
Vanilla essence	-	1	1	-
Vitaphone tablets	-	1	1	-
Walnuts	-	1	1	-
	12	118	123	7

Particulars of Samples Adulterated or
otherwise giving rise to Irregularity

- (1) Sample of ammoniated tincture of quinnine: Deficient in ammonia to the extent of 60 per cent. A formal sample will be taken.
- (2) Sample of bronchial mixture: Deficient in ammonium carbonate, 8 per cent. An incorrect label was on the bottle and this was amended following a warning letter to the vendor.
- (3) Sample of cream horns: The "cream" was made with fat other than butter fat and a notice under Section 47 Food and Drugs Act, 1955 was not exhibited. A warning letter was sent to the vendor.
- (4) Sample of milk: Sixteen per cent deficient in fat. This was an informal sample and a subsequent formal sample taken from the same source was reported to be genuine.

- (5) Sample of canned orange juice: The label mentioned vitamins but did not bear the necessary declaration of their qualities. The label was subsequently amended.
- (6) Sample of sal volatile: Deficient in ammonia to the extent of 11 per cent. A formal sample will be taken.
- (7) Sample of pork sausages: Contained undeclared sulphite preservative. A warning letter was sent to the vendor and a preservative notice is now exhibited.

Complaints:

- (1) Foreign body in portion of wrapped cheese: A letter of caution was sent to the manufacturer.
- (2) Sale of meat alleged to be unfit for human consumption: Complainant subsequently declined to give evidence.
- (3) Tin of meat containing a match stick: A letter of caution was sent to the retailer.
- (4) Piece of glass in skinless sausages: A letter of caution was sent to the manufacturer concerned.

SECTION "F"

PREVALENCE AND CONTROL OVER INFECTIOUS AND "OTHER DISEASES"

INFECTIOUS DISEASES

The following notifiable infectious diseases were recorded:-

Measles	..	..	..	..	..	899
Whooping Cough	..	..	..	..	..	2
Tuberculosis - Respiratory	..	..	..	..	..	20
- Non-Respiratory	..	..	..	..	..	3
Pneumonia	..	..	..	..	..	21
Scarlet Fever	..	..	..	..	..	13
Erysipelas	..	..	..	..	..	6
Puerperal Pyrexia	..	..	..	..	..	3
Acute Poliomyelitis-Paralytic	..	..	..	..	..	-
Dysentery	..	..	..	..	..	1
						<hr/> 968

A table showing other particulars is given on page 8

There were no cases of Smallpox or Diphtheria.

INSTITUTIONAL ACCOMMODATION FOR INFECTIOUS DISEASES

Patients needing institutional accommodation for treatment or isolation were sent to Joyce Green Hospital, Dartford.

Other arrangements include the following:-

- (a) Ophthalmia Neonatorum -
Kent Ophthalmic Hospital, Maidstone.
- (b) Smallpox -
The River Hospital (Long Reach) Dartford.
- (c) Tuberculosis -
Bow Arrow Hospital, Dartford, and other hospitals and sanatoria arranged by the Chest Physicians.

POLIOMYELITIS VACCINATION

Details are found on page 37.

DIPHTHERIA IMMUNISATION

This work is under the control of the Kent County Council and the following arrangements are in operation:-

1. Immunisations are carried out at special sessions at the Welfare Centres and School Clinics.
2. Immunisations on behalf of the Local Health Authority are carried out by General Practitioners at their surgeries.
3. Notices are sent to parents of every infant at the age of 8 months.
4. The Health Visitors follow up all cases in which there is no record of the injections having been given.

The following is a return of the number of children resident in the Borough who were immunised against Diphtheria during the year ended 31st December, 1961:-

Year of Birth	Primary Inoculation	Re-inforcing Inoculations
1961	345	-
1960	417	25
1959	61	117
1958	36	66
1957	25	45
1952 - 1956	109	496
1947 - 1951	35	58
	<hr/> 1,028	<hr/> 807

SMALLPOX PREVENTION

Vaccination

When the National Health Service Act, 1946, came into operation the Vaccination Acts were repealed and infant vaccination ceased to be compulsory.

The following is a return of the number of persons who were vaccinated against Smallpox during the year ended 31st December, 1961.

Age	Primary Vaccination	Re-Vaccination
Under 1 year	568	-
2 years	73	-
2 - 4 years	41	-
5 - 14 years	31	2
15 years or over	14	3
	<hr/> 727	<hr/> 5

WHOOPIING COUGH IMMUNISATION

The following is a return of the number of persons who were immunised against Whooping Cough during the year ended 31st December, 1961.

Year of Birth			Primary Immunisation
1961	..	..	343
1960	..	..	414
1959	..	..	42
1958	..	..	19
1957	..	..	16
1952 - 1956	..	..	53
1947 - 1951	..	..	14
			<hr/>
			901
			<hr/>

POLIOMYELITIS VACCINATION

The following table gives the number of persons resident in the Borough who received injections against Poliomyelitis during the year ended 31st December, 1961.

Year of Birth	Given two injections	Given third injection	Given fourth injection
1957 - 1961	890	923	-
1946 - 1956	289	617	-
1943 - 1945	382	81	-
1933 - 1942	373	269	-
1921 - 1932	909	983	-
Others	43	83	-
School children under 12 years	-	-	3,604
	<hr/>	<hr/>	<hr/>
	2,886	2,956	3,604
	<hr/>	<hr/>	<hr/>

TUBERCULOSIS

Close co-operation has been maintained between the Health Department and the Chest Physicians.

Diagnosis

The Chest Clinic is provided at the Gravesend and North Kent Hospital where patients are seen every Wednesday at 9.30 a.m. and on Tuesday afternoons for children.

NOTIFICATION OF NEW CASES OF TUBERCULOSIS

In 1961, 23 fresh cases were notified. The following table gives comparative particulars over the last ten years:-

Year	Estimated Population of Registrar General	Pulmonary	Non- Pulmonary	Total
1952	45,260	77	3	80
1953	45,530	48	3	51
1954	45,960	57	6	63
1955	46,390	36	3	39
1956	47,670	31	5	36
1957	46,930	29	6	35
1958	46,660	27	1	28
1959	48,370	29	3	32
1960	49,110	21	5	26
1961	51,240	20	3	23

The sources from which the notifications of tuberculosis were received:-

Chest Physicians	17
Private Medical Practitioners ..	2
Hospitals and Institutions ..	4

AGE AND SEX DISTRIBUTION OF TUBERCULOUS PATIENTS

The following table shows the age and sex distribution of our 23 new cases:-

Age Periods	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
0 - 1	-	-	-	-
1 - 5	-	-	-	-
5 - 10	-	-	-	-
10 - 15	1	1	-	-
15 - 20	3	3	-	-
20 - 25	1	-	-	-
25 - 35	-	1	1	1
35 - 45	3	1	1	-
45 - 55	2	-	-	-
55 - 65	2	2	-	-
65 & over	-	-	-	-
	<hr/> 12	<hr/> 8	<hr/> 2	<hr/> 1

TUBERCULOSIS DEATHS AND DEATH RATE

There were 10 deaths registered from Pulmonary Tuberculosis. This gives a death rate of .19 per 1,000 population for all forms of tuberculosis.

The following table compares the figures for 1961 with those of previous years: -

Year	Pulmonary		Non-Pulmonary		TOTAL
	Number of deaths	Rate per 1,000 Pop.	Number of deaths	Rate per 1,000 Pop.	Rate per 1,000 Pop.
1952	11	.24	1	.02	.26
1953	11	.24	1	.02	.26
1954	9	.19	2	.04	.23
1955	9	.19	-	-	.19
1956	4	.08	1	.02	.10
1957	7	.14	-	-	.14
1958	5	.11	2	.04	.15
1959	5	.10	-	-	.10
1960	9	.18	-	-	.18
1961	10	.19	-	-	.19

TUBERCULOSIS REGISTER

The names of 74 persons were removed from the Register for the following reasons: -

Deaths	..	..	10
Left the District	..	..	14
Recovered	..	..	44
Diagnosis not Confirmed	..	..	-
Refused Public Medical Treatment			3
Lost sight of	..	..	3
			<u>74</u>

Four hundred and seventy-two persons remained on the Register at the 31st December, 1961. They consist of the following: -

	Males	Females	Total
Pulmonary	243	197	440
Non-Pulmonary	17	15	32
	<u>260</u>	<u>212</u>	<u>472</u>

MASS RADIOGRAPHY

The last survey was carried out in 1959 and we hope to have a further visit from the unit in 1962.

TUBERCULOUS PATIENTS ADMITTED TO HOSPITALS AND SANATORIA

Eleven patients suffering from pulmonary tuberculosis and two patients suffering from non-pulmonary tuberculosis were admitted during the year. There has been a continued improvement in obtaining early admission to hospital and sanatoria, and the delay in obtaining admission for patients needing thoracic surgery has been considerably reduced.

INNOCULATION AGAINST TUBERCULOSIS

A substantial number of children have been vaccinated with B.C.G.

LEGAL PROCEEDINGS (TUBERCULOSIS)

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

VENEREAL DISEASES

Dr. C. D. Routh, the Medical Officer in charge of the Gravesend Clinic, has kindly supplied the following statistics:-

New Patients - Gravesend			Males	Females	Total
Syphilis	..	..	3	1	4
Gonorrhoea	..	..	29	21	50
Other conditions	..	..	71	51	122
			<u>103</u>	<u>73</u>	<u>176</u>

Total number of New Patients from all areas	..	..	315
Total number of attendances from all areas	..	..	1,548
Total number of attendances from Gravesend	..	..	802

Discharged cured (all districts):-			Males	Females	Total
Syphilis	..	..	2	2	4
Gonorrhoea	..	..	28	24	52
Other conditions	..	..	177	112	289
			<u>207</u>	<u>138</u>	<u>345</u>

Defaulters before completion of treatment or final tests from the Gravesend area:-

Syphilis	..	..	..	..	1
Gonorrhoea	..	..	..	..	3
Other conditions	..	..	..	..	4

CLEANLINESS, GOOD HEALTH AND ELIMINATION OF VERMINOUS CONDITIONS

The Health Visitors and Public Health Inspectors have been active in their educative work in regard to cleanliness and freedom from vermin.

ERADICATION OF VERMIN

The work of disinfection of Council houses is carried out by the Local Authority, infested rooms being sprayed with an insecticide.

Premises belonging to private owners are also disinfested on request and the cost of the work is charged to the persons concerned.

Twenty-one houses were disinfested by the Health Department during the year.

BOROUGH MORTUARY

The Mortuary, situated in Swan Yard, provides facilities for six bodies and there is a well equipped post-mortem room.

During the year, 104 bodies were received and 97 post-mortem examinations performed.

CORONER'S INQUESTS

H.M. Coroner has kindly supplied the following information:-

Total number of inquests	..	..	20
Number of inquests without post-mortems	..	..	-
Number of post-mortems without inquests	..	..	82

Verdicts:-

Accidental deaths	..	..	..	13
Suicides	..	..	..	5
Found drowned	..	..	..	-
Other verdicts	..	..	..	2

SECTION "G"

CLEAN AIR ACT, 1956

SMOKE CONTROL AREA

The Ministry of Housing and Local Government gave approval to the proposals submitted by the Council regarding the first area. The work in connection with this first area was commenced, and proceeded throughout the year.

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

		Probable numbers per 100 ml.		Remarks	
		Coliform bacilli	Bact. Coli (type 1)		
		Date taken			
1.	(a) Leith Park Road well (untreated)	16. 1. 61	None	None	Satisfactory
		20. 2. 61	None	None	Satisfactory
		20. 3. 61	None	None	Satisfactory
		17. 4. 61	None	None	Satisfactory
		15. 5. 61	None	None	Satisfactory
		17. 7. 61	None		Satisfactory
	(b) Reservoir (treated)	16. 1. 61	None	None	Satisfactory
		20. 2. 61	None	None	Satisfactory
		20. 3. 61	None	None	Satisfactory
		17. 4. 61	None	None	Satisfactory
		15. 5. 61	None	None	Satisfactory
		19. 6. 61	None	None	Satisfactory
		17. 7. 61	None	None	Satisfactory
		21. 8. 61	None	None	Satisfactory
		21. 8. 61	None	None	Satisfactory
		18. 9. 61	None	None	Satisfactory
		23. 10. 61	None	None	Satisfactory
		20. 11. 61	None	None	Satisfactory
		18. 12. 61	None	None	Satisfactory

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

	Number of Samples	Date taken	Probable numbers per 100 ml. Coliform bacilli	Bact. Coli (type 1)	Remarks
2. Domestic Supplies (treated)	3	16. 1. 61	None	None	Satisfactory
	5	20. 2. 61	None	None	Satisfactory
	4	20. 3. 61	None	None	Satisfactory
	3	17. 4. 61	None	None	Satisfactory
	4	15. 5. 61	None		Satisfactory
	5	19. 6. 61	None		Satisfactory
	4	17. 7. 61	None		Satisfactory
	5	21. 8. 61	None		Satisfactory
	4	18. 9. 61	None		Satisfactory
	5	23. 10. 61	None		Satisfactory
	5	20. 11. 61	None		Satisfactory
	5	18. 12. 61	None		Satisfactory

CHEMICAL ANALYSIS OF DRINKING WATER

Date taken: 5.12.61.
Appearance: Clear, bright
Odour: None

	<i>parts per million</i>
Free and saline ammonia	Nil
Albuminoid ammonia	Nil
Nitrogen as Nitrate	Nil
Nitrogen as Nitrates	10.5
Chlorine as Chlorides	28
Temporary hardness	275
Total hardness	322
Permanent hardness	47
Oxygen absorbed from Permanganate in 4 hours at 80°F	0.04
Total solids	444
pH value	7.3

The microscopic examination revealed the presence of a trace of mineral and vegetable matter.

OPINION:

This represents a hard water of good chemical quality.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Date taken	Where taken	Probable numbers per 100 ml.		Plate count per ml.	Remarks
		Coliform bacilli	Bact. Coli (type I)		
15. 5. 61	Deep end	None	None		Satisfactory
	Shallow end	None	None		Satisfactory
	Paddling pool	None	None		Satisfactory
19. 6. 61	Deep end	None	None		Satisfactory
	Shallow end	None	None		Satisfactory
	Paddling pool	None	None		Satisfactory
17. 7. 61	Deep end	None		None	Satisfactory
	Shallow end	None		None	Satisfactory
	Paddling pool	None		None	Satisfactory
28. 8. 61	Deep end	None		3	Satisfactory
	Shallow end	None		3	Satisfactory
	Paddling pool	1	1	2	Unsatisfactory

ATMOSPHERIC POLLUTION

Data extracted from the Analyst's monthly reports was also supplied to the Thameside Joint Committee in the form shown in the following tables

(See notes at end of tables for details of abbreviations)

Site: Dashwood Lane Nurseries

Month	Rain mm	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	SO4	TS
1960											
Oct.	133.41	7.53	324	2	251	71	644	120	47	273	967
Nov.	79.26	6.22	127	2	92	33	298	52	47	124	425
Dec.	60.56	5.62	325	3	250	71	508	112	44	256	833
1961											
Jan.	39.89	6.63	218	3	172	43	343	74	37	145	561
Feb.	43.29	6.54	161	3	126	33	283	54	26	123	444
Mar.	8.24	6.65	341	2	245	95	331	81	22	157	672
Total	364.65	39.19	1496	15	1136	346	2407	493	223	1078	3902
Mean	60.78	6.53	249	3	189	58	401	82	37	180	650

Apr.	31.52	6.74	164	1	120	42	196	30	13	91	360
May	38.98	7.77	420	4	213	204	237	41	18	101	657
June	40.55	7.30	463	4	346	113	382	64	25	129	845
July	27.73	7.45	448	4	352	92	316	67	24	114	764
Aug.	37.28	7.02	306	2	215	90	400	97	24	109	706
Sep.	60.29	6.82	268	1	214	53	277	48	20	135	545
Total	236.35	43.10	2069	16	1460	594	1808	347	124	679	3877
Mean	39.39	7.17	345	3	243	99	301	58	21	113	646

Site: Swimming Pool

Month	Rain mm	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	SO4	TS
1960 Oct.	132.65	7.68	439	4	315	120	540	97	47	221	978
Nov.	82.38	6.38	222	4	157	61	347	54	53	129	569
Dec.	60.27	5.39	335	5	236	94	526	99	53	250	861
1961 Jan.	45.13	6.64	329	6	253	71	361	70	39	142	690
Feb.	45.92	6.45	341	5	261	75	396	76	37	172	737
Mar.	8.29	6.68	378	5	286	87	393	85	23	159	771
Total	374.64	39.22	2044	29	1508	508	2563	481	252	1073	4606
Mean	62.44	6.54	341	5	251	85	427	80	42	179	768

Apr.	30.00	6.71	285	2	217	66	262	47	16	116	547
May	31.98	7.33	260	4	175	80	226	39	18	101	486
June	33.43	7.34	391	4	218	108	390	66	28	135	780
July	27.90	7.58	406	5	300	100	349	75	28	126	755
Aug.	40.53	7.24	325	3	248	73	424	93	26	114	749
Sep.	40.40	6.68	249	3	188	59	329	63	24	147	578
Total	204.24	42.88	1916	21	1346	486	1980	383	140	739	3895
Mean	34.04	7.15	319	4	224	81	330	64	23	123	649

Abbreviations: -

TWIM	Total water insoluble matter
S/CS2	Soluble carbon disulphide
OCM	Other combustible matter
TWSM	Total water soluble matter
Ca	Calcium
Cl	Chloride
SO4	Calculated as sulphate
TS	Total solids

ATMOSPHERIC POLLUTION

Site	Rainfall inches	Measurement of Deposited Matter by Deposit Gauges			Estimation of Sulphur by Lead Peroxide Instruments
		Insoluble Deposit (Tons per square mile)	Soluble Deposit	Total Solids	SO3 (sulphur trioxide) collected per day (milligrammes)
DASHWOOD LANE NURSERIES					
1961					
January	1.57	5.56	8.74	14.30	1.77
February	1.71	4.11	7.20	11.31	1.46
March	0.32	8.71	8.44	17.15	1.58
April	1.24	4.17	5.00	9.17	0.68
May	1.54	10.71	6.04	16.75	1.13
June	1.60	11.80	9.74	21.54	0.90
July	1.09	11.42	8.07	19.49	1.04
August	1.47	7.80	10.20	18.00	0.86
September	2.39	6.84	7.07	13.91	0.61
October	3.21	4.60	8.27	12.87	0.99
November	2.38	5.49	12.47	17.96	2.00
December	2.49	6.34	13.47	19.81	1.56
Mean	1.75	7.30	8.73	16.02	1.22
SWIMMING POOL					
1961					
January	1.77	8.40	9.20	17.60	2.05
February	1.81	8.69	10.10	18.79	1.93
March	0.33	9.63	10.02	19.65	1.92
April	1.18	7.28	6.68	13.96	0.85
May	1.26	6.62	5.77	12.39	1.10
June	1.32	9.97	9.93	19.90	0.90
July	1.10	10.35	8.89	19.24	1.10
August	1.59	8.29	10.81	19.10	1.04
September	1.59	6.35	8.39	14.74	0.96
October	2.95	6.53	12.28	18.81	1.33
November	2.08	8.20	11.67	19.87	2.58
December	2.42	8.52	10.07	18.59	2.76
Mean	1.62	8.24	9.48	17.72	1.54

Sulphur Dioxide (PbO_2 method)

SO_3 (sulphur trioxide collected per day (milligrammes))

Site	1960			1961				Mean
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Sum.	
Dashwood Nurseries	1.66	1.00	1.67	1.77	1.46	1.58	9.14	1.52
Swimming Pool	1.73	1.38	1.91	2.05	1.93	1.92	10.92	1.82

Site	1961							Mean
	Apr.	May	June	July	Aug.	Sep.	Sum.	
Dashwood Nurseries	0.68	1.13	0.90	1.04	0.86	0.61	5.22	0.87
Swimming Pool	0.85	1.10	0.90	1.10	1.04	0.96	5.95	0.99

INVESTIGATION OF ATMOSPHERIC POLLUTION,
SMOKE AND SULPHUR DIOXIDE BY VOLUMETRIC METHOD

SITE:- 3 Woodville Terrace

	SMOKE			SULPHUR DIOXIDE		
	Concentration mg/100 m ³ (expressed in milligrammes per 100 cubic metres)			Concentration per 100 m. (expressed in parts per 100 million parts of air)		
	Average value	Highest value	Lowest value	Average value	Highest value	Lowest value
1961						
January	17	53	7	6.0	16.8	0.9
February	14	31	5	4.2	10.1	0.0
March	19	38	6	7.5	16.0	2.8
April	6	12	1	3.1	7.3	1.2
From May onwards smoke units are expressed in microgrammes per cubic metre				From May onwards sulphur dioxide units are expressed in microgrammes per cubic metre		
May	43	80	10	81	260	14
June	31	80	10	75	180	6
July	24	50	0	88	243	14
August	25	60	0	68	220	14
September	33	110	10	66	295	20
October	74	300	0	91	369	6
November	163	525	44	127	240	27
December	267	780	36	180	513	22